

AMENDMENTS TO THE CLAIMS

Claims 1-10 (Cancelled).

11. (New) A data logger for use on a sports rowing craft comprising:
- a. a global position sensor mountable on the boat to derive three dimensional positioning data relative to elapsed time;
 - b. at least one accelerometer mountable on the boat to derive acceleration and velocity data in three dimensions;
 - c. a power supply;
 - d. a microcontroller with a clock to interrogate the global position sensor at a frequency of at least 1Hz and to measure the accelerometer data;
 - e. physiological sensors adapted to be fitted to each crew member and arranged to communicate with said microcontroller;
 - f. said microcontroller being programmed to manipulate the received data and transform it into useful parameters for assessing crew and craft performance; and selectively including--
 - g. storage means for storing the parameters; and
 - h. telemetry means for transmitting the parameters to a remote control point
12. (New) A data logger as claimed in claim 1 that also includes a boat speed sensor.
13. (New) A data logger as claimed in claim 1 in which the physiological sensor is a heart rate monitor.
14. (New) A data logger as claimed in claim 1 in which velocity is derived from the global position sensor and the accelerometer data is sampled to derive data on stroke characteristics and rowing stroke rate.

15. (New) A data logger as claimed in any preceding claim wherein the accelerometer data is integrated to derive velocity related movement characteristics and drift is checked every second using the output from the global position sensor.
16. (New) A data logger as claimed in claim 5 wherein an inertial navigation system based on the accelerometer data is used to determine position when the GPS system is unable to receive data.